

### Amendments to the Claims:

The following Listing of the Claims will replace all prior versions and all prior listings of the claims in the present application.

### Listing of The Claims:

1. (Amended) A method for preparing a high density oligonucleotide array on a solid support, said method comprising the following steps:

a) providing a solid support having a surface comprising functional groups;

b) attaching an activated nucleotide to said functional group in the presence of an activator, said activator comprising 4,5 dicyanoimidazole;

c) repeating said step of attaching an activated nucleotide to form an oligonucleotide array having at least 100 different oligonucleotides /cm<sup>2</sup>.

2. (Original) A method for preparing a high density oligonucleotide array according to claim 1 wherein said array has at least 500 different oligonucleotides /cm<sup>2</sup>.

3. (Original) A method for preparing a high density oligonucleotide array according to claim 1 wherein said array has at least 1000 different oligonucleotides /cm<sup>2</sup>.

4. (Original) A method for preparing a high density oligonucleotide array according to claim 1 wherein said array has at least 5000 different oligonucleotides /cm<sup>2</sup>.

5. (Original) A method for preparing a high density oligonucleotide array according to claim 1 wherein said array has at least 10,000 different oligonucleotides /cm<sup>2</sup>.

6. (Original) A method according to claim 1 wherein said activated nucleotide is a phosphoramidite.

7. (Amended) A method according to claim 1 wherein said phosphoramidite is located at the 3' hydroxyl group of a nucleotide.

8. (Amended) A method according to claim 6 wherein said ~~phosphoramidite~~ phosphoramidite further comprises a photo protecting group.

9. (Amended) A method according to claim 8 wherein said photo protecting group is selected from the group consisting of NVOC nitroveratryloxycarbonyl, NPOC nitropiperonyloxycarbonyl, MeNVOC alpha-methyl-nitroveratryloxycarbonyl, and MeNPOC alpha-methyl-nitropiperonyloxycarbonyl.

10. (Amended) A method according to claim 9 wherein said photo protecting group is ~~MeNPOC~~  
alpha-methyl-nitropiperonyloxycarbonyl.

11 to 15 (Cancelled).